

## Patent Abstracts of Japan

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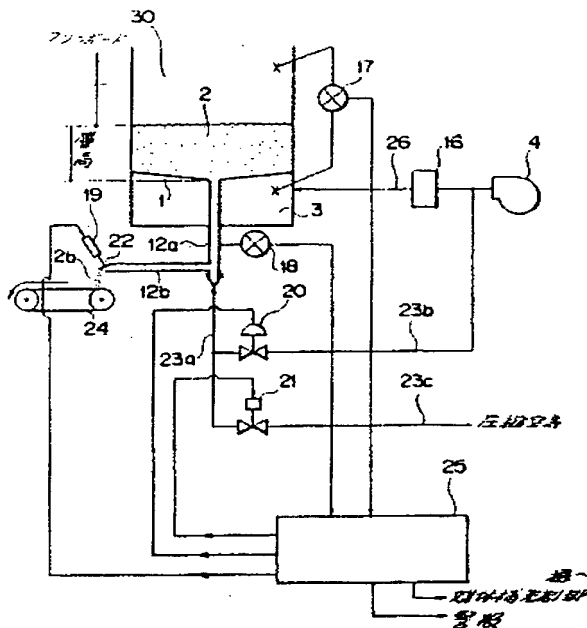
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APPLICANT : BABCOCK HITACHI KK:

INVENTOR : YONEYAMA SUSUMU;

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TITLE : GROWING FLUID MEDIUM  
DISCHARGE SYSTEM



**ABSTRACT :** PURPOSE: To exhaust only a fluid medium grown to a size being improper for a fluid medium, without the occurrence of poor working due to choking of a fluid medium discharge line, by a method wherein gas, caused to flow from the portion, positioned in the vicinity of a medium outlet, of a medium discharge pipe through the medium discharge pipe to the interior of a fluidized bed and at a speed exceeding the terminal speed of medium particle used in the fluidized bed, is continuously fed.

**CONSTITUTION:** A fluid medium flows in a medium discharge pipe 12a, installed to a porous plate 1, along with fluidization of a fluid medium. Air having a quantity being large enough to provide a tube flow velocity being slightly below the terminal speed of thickening particle to be discharged is blown from the lower part of the medium discharge pipe through a regulating valve 20 to the medium discharge pipe 12a and flows toward the fluidized bed side. Therefore, particles having a terminal speed being below the speed of the discharge grain fractional air flow are blown back to the fluidized bed side by means of the air flow, and are prevented from discharging. Particles having a terminal speed exceeding that of the air flow are settled in the discharge pipe 12a, flow in a discharge outlet pipe 12b, and are discharged through a flapper 22.

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